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> DEPATISnet-Home > Search > Beginner > Result list > Bibliographic data

## Bibliographic data

Document **DE000003703336A1** (Pages: 4)

Navigation in hitlist  (1 / 1)

Criterion	Field	Contents
Title	TI	[DE] Lithotripter mit integriertem PVDF-Folien-Ortungssystem [EN] Lithotripter with an integrated polyvinylidene fluoride film locating system
Applicant	PA	Siemens AG, 1000 Berlin und 8000 München, DE
Inventor	IN	Hassler, Dietrich, Dipl.-Ing., 8525 Uttenreuth, DE ; Schmidt, Erhard, Ing.(grad.), 8520 Erlangen, DE
Application date	AD	04.02.1987
Application number	AN	3703336
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Priority date	PRC PRN PRD	
IPC main class	ICM	A61B 17/22
IPC secondary class	ICS	A61B 8/00 G01S 15/98
IPC additional class	ICA	
IPC index class	ICI	
MCD main class	MCN	
MCD secondary class	MCS	A61B 17/22 (2006.01) A, , I, 20051008, R, M, EP G01S 15/90 (2006.01) C, , I, 20051008, R, M, EP G01S 15/89 (2006.01) A, , I, 20051008, R, M, EP G10K 11/00 (2006.01) C, , I, 20051008, R, M, EP G10K 11/30 (2006.01) A, , I, 20051008, R, M, EP
MCD additional class	MCA	
Abstract	AB	[EN]

A lithotripter for breaking up a concretion (19) in the human body (12) comprises a shock wave pulse-emitting shock wave source (1) and a focusing device (11). In front of the focusing device (11), viewed in the direction of propagation of the shock wave pulses, two polyvinylidene fluoride films (31, 33) are arranged. The polyvinylidene fluoride films (31, 33) are activated piezoelectrically in the manner of an annular array. The first polyvinylidene fluoride film (31) is connected to an ultrasonic transmitter and the second polyvinylidene film (33) is connected to an ultrasonic reception circuit. Behind the focusing device (11), a deflector system is arranged which consists of two prisms (35) which can be rotated with respect to one another. The advantage of the polyvinylidene fluoride film locating system is that during the lithotripsy treatment the position of the concretion (19) and its displacement out of the focus (F) of the focusing device (11) can be continuously monitored and if necessary corrected. <IMAGE>

Information on correction

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Cited documents

CT

Cited non-patent literature

CTNP

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